

PCT09

RAW SEQUENCE LISTING

DATE: 09/10/2001

PATENT APPLICATION: US/09/913,767

TIME: 14:17:50

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Output Set: N:\CRF3\09102001\I913767.raw

3 <110> APPLICANT: Frommer, Wolf G.

5 <120> TITLE OF INVENTION: Nucleic Acids That Code for a Nucleobase Transporter

7 <130> FILE REFERENCE: GKS-101.0 7911/83549

C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/913,767

10 <141> CURRENT FILING DATE: 2001-08-17

12 <150> PRIOR APPLICATION NUMBER: PCT/EP00/01397

13 <151> PRIOR FILING DATE: 2000-02-21

15 <150> PRIOR APPLICATION NUMBER: DE 19907209.4

16 <151> PRIOR FILING DATE: 1999-02-19

18 <160> NUMBER OF SEQ ID NOS: 13

20 <170> SOFTWARE: PatentIn Ver. 2.1

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 1225

24 <212> TYPE: DNA

25 <213> ORGANISM: Arabidopsis thaliana

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 37 tatgtggttg ggttcttgat gactgtggtt gcagctcttc tctatgcttt tatattaccg 600
 38 ctggttgagc taacttacia gaaagctcgt caagaaatca ctttccact tgtgcttgag 660
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53 <212> TYPE: DNA

54 <213> ORGANISM: Arabidopsis thaliana

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93 agctcagctg gttattctct ggtgctttct ttaacagatt acgcgttcga aaagattcta 660
94 aagaaataca cattcaaggc tattttagac atggccacat atccgtctat ggtagctact 720
95 tgtgtagttg tggtaggact ttttggaagt ggtgggtgga aaaagctgag tacagaaatg 780
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113 tcagatcata acaacataga agcaaaccta acaggtcagg aggaaatgaa taccaccatg 180
114 gaaatcgaat ctctgtccgt acctcaatcg aagaactata agaaatggct tcgtatttcc 240
115 atttacgtgt tctttgtcct tgcttgccaa gcactttcta caattttggg cagagtttac 300
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119 gtgtctgcta actcttatat gtctctgtt ggtttactat acttaccagt ttctactttc 540
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121 cagaagttca cacctttcat tgtgaattct ctgtttctcc ttactatttc ctctgccctc 660
122 ctctgtgttca aactgattc ggaaaacaca gcaaaagtgt ctagagtaaa atatgtgata 720
123 gggataatat gtaccattgg tgcttctgct gggattggat tgctgctatc cctggtacaa 780
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130 gctatctggg gattcatttc atttgtctat cagcactacc tcgacgaaaa gaagttgaag 1200
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158 tccaaaatct tctccattat tttagctatc tgcggttcc tttcattcgt ctatcagcac 1080
159 tacctcgacg aaaagaagtt gaatactagc cacacaagtg ctgtaggaga tcttcatcta 1140
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164 <211> LENGTH: 1081
165 <212> TYPE: DNA
166 <213> ORGANISM: Arabidopsis thaliana
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171 tggetagcaa cggtagttca acttgttggc tttcctgtgc tacttccata ttatatcttg 180

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183 agcgttttgg gactcccagt ggttcctatc ttggctgtaa tcattttcca tgacaaaatg 900
184 aatgggttaa aggtgatttc tatgatccta gctatttggg gtttcacttc ctatgtctac 960
185 caacaatatt ttgatgacaa aaacttgaag aaaaatcatg aaatcacac aacagaatcc 1020
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192 <212> TYPE: DNA

193 <213> ORGANISM: Arabidopsis thaliana

195 <400> SEQUENCE: 7

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198 acggtagttc agcttgtagg ctttcctatt ctacttccat atcatctctt gtcagtcaaa 180
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204 acaaaaggag agtatgtcaa aggtttcgta tgcaccgttg gtgcatctgc tgggtttgg 540
205 ctactcttat ccctacaaca gctagccttt cgtaaaagtt taaagaagca aactttctca 600
206 gaagttataa atatgataat ctacatgagt ctagtggcca gttgtgttag cgtgggtggg 660
207 ctttttgcta gtagcgagt gaaaactttg agcagtgaat tggaaaacta caaacttggg 720
208 aaggtatcct atgtcatgaa cctagtgtgg acagctgtta cctggcaggg attctccatc 780
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212 cttgatgaaa caaacttgaa gaaaagtaat gaaataccaa caacagaatc ccctgaccga 1020
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218 <212> TYPE: PRT

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221 <400> SEQUENCE: 8

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226           20           25           30
228 Lys Arg Ile Trp Phe Met Ser Phe Leu Ser Thr Ala Gly Phe Pro Ile

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235 65          70          75          80
237 Met Glu Thr Pro Leu Phe Ile Ala Ser Ile Val Ile Gly Leu Leu Thr
238          85          90          95
240 Gly Leu Asp Asn Tyr Leu Tyr Ser Tyr Gly Leu Ala Tyr Leu Pro Val
241          100          105          110
243 Ser Thr Ser Ser Leu Ile Ile Gly Thr Gln Leu Ala Phe Asn Ala Leu
244          115          120          125
246 Phe Ala Phe Leu Leu Val Lys Gln Lys Phe Thr Pro Phe Ser Ile Asn
247          130          135          140
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250 145          150          155          160
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253          165          170          175
255 Phe Leu Met Thr Val Val Ala Ala Leu Leu Tyr Ala Phe Ile Leu Pro
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258 Leu Val Glu Leu Thr Tyr Lys Lys Ala Arg Gln Glu Ile Thr Phe Pro
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261 Leu Val Leu Glu Ile Gln Met Val Met Cys Leu Ala Ala Thr Phe Phe
262          210          215          220
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265 225          230          235          240
267 Glu Ala Arg Glu Phe Lys Ile Gly Gly Ser Val Phe Tyr Tyr Ala Leu
268          245          250          255
270 Ile Val Ile Thr Gly Ile Ile Trp Gln Gly Phe Phe Leu Gly Ala Ile
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274          275          280          285
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280 305          310          315          320
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
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L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13